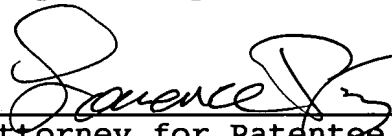


Patentees believe that no additional fee is required since such was paid earlier. However, the Assistant Commissioner is authorized to charge any required fees to Deposit Account No. 06-1205.

Patentees' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



Attorney for Patentee
Lawrence S. Perry
Registration No. 31,865

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
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CERTIFICATE OF CORRECTION

PATENT NO. : 5,891,429

DATED : April 6, 1999

INVENTOR(S) : STEVEN C. CLARK, ET AL.

Page 1 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Note
ON THE TITLE PAGE AT [54] TITLE *x Column 1*

"GRANULOCYTE-" should read --GRANULOCYTE--.

ON THE TITLE PAGE AT [73] ASSIGNEE

"Switzerland" should read --Basel, Switzerland--.

AT [56] REFERENCES CITED

OTHER PUBLICATIONS

"Gongh et al." should read --Gough et al.-- and
"Blencley et al." should read --Bleackley et al.--.

Imed
COLUMN 1

Line 1, "GRANULOCYTE-" should read --GRANULOCYTE--.

COLUMN 2

Line 6, "active" should read --activity--;
Line 36, "ape" should read --and ape--;
Line 52, "Maniatis T." should read --(Maniatis, T.--;

and

Line 59, "sequences;" should read --sequence;--.

COLUMN 3

Line 22, "CSF" should read --CSF's--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 4

Line 55, "tern" should read --term--.

COLUMN 6

Line 40, "polyadanylation" should read --polyadenylation--; and

Line 52, "publically" should read --publicly--.

COLUMN 7

Line 10, "census" should read --sensus--;

Line 22, "sequencs" should read --sequence--;

Line 29, "concensus" should read --consensus--; and

Line 38, "inton" should read --intron--.

COLUMN 8

Line 20, "aactivity" should read --activity--.

COLUMN 10

Line 2, "2x10⁷" should read --1x10⁷--;

Line 45, "ultogel," should read --ultrogel,-- and

Line 47, "form" should read --from--.

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Line 49, "limitive" should read --limitative--;
Line 53, "Restrictions" should read --Restriction--;
Line 57, "buffar" should read --buffer--; and
Line 61, "Tris-botate," should read --Tris-borate,--.

COLUMN 12

Line 43, "3 ," should read --3 hours,--; and
Line 61, "CSP" should read --CSF--.

COLUMN 13

Line 2, "monacytes" should read --monocytes--;
Line 7, "2%" should read --2x--;
Line 31, "pSVOD" should read --pSVOd--;
Line 36, "pCSVL2" should read --pCSVL-2--;
Line 37, "FIG. 2." should read --FIGS. 2 and 3--; and
Line 63, "5' of" should read --5' or 3' of--.

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COLUMN 14

Line 8, "pCVL2-" should read --pCVSVL-2--
Line 17, "with," should read --with--;
Line 24, "pSR322-Ad" should read --pBR322-Ad--;
Line 28, "EcoR1)." should read --EcoR1)--;
Line 29, "E. coli HB102." should read E. coli HB101;
Line 30, "resistances," should read --resistance--;
Line 36, "fragment" should read --fragments--;
Line 40, "fragments" should read --fragments--;
Line 52, "p9123(B)" should read --p91023(B)--;
Line 55, "step 4." should read --Step 4--; and
Line 59, "5 ng/al" should read --5 ng/ml--.

COLUMN 15

Line 13, "SW4centrifuge" should read
--SW41 centrifuge--;
Line 36, "dt-cellulose" should read --dT-cellulose--;
Line 52, "there" should read --then--; and
Line 63, "pH 9.4. 14 C mM KCl," should read
--pH 8.4, 140 mM KCl,--.

COLUMN 16

Line 7, "chloroform" should read --chloroform--;
Line 40, "pCGAATTC CG)" should read --pCGAATTC CG)--; and
Line 50, "1" should read --1%--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 17

Line 2, "25 transformation" should read
--25 transformations--; and

Line 61, "heatinactivated" should read
--heat-inactivated--.

COLUMN 18

Line 2, "glutamine" should read --glutamine,--

Line 24, "ug/ml" should read -- μ g/ml--;

Line 37, "ul" should read -- μ l--;

Line 50, "insect." should read --insert.-- and

Line 54, "3 sequencing" should read --sequencing--.

COLUMN 19

Line 1, "glutamine." should read --glutamine,--

Line 2, "ug/ml" should read -- μ g/ml--;

Line 12, "SP" should read --SF--;

Line 13, "SP" should read --SF--;

Line 18, "sample" should read --samples--;

Line 28, "bias" should read --was--;

Line 33, "wag" should read --was--;

Line 37, "It" should read --(It--;

Line 44, "TEA." should read --TFA.--;

Line 45, "gradient" should read --gradient--; and

"acatonitrile" should read --acetonitrile--;

Line 47, "acatonitrile" should read --acetonitrile--;

and "20 ul" should read --20- μ l--;

Line 49, "electrophoresis" should read

--electrophoresis--; and

Line 56, "ug" should read -- μ g--.

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COLUMN 20

Line 8, "product" should read --produce--;
Line 10, "tetradecanoyl" should read --tetradecanoyl--;
Line 18, "ug" should read -- μ g--; and
"Of" should read --of--;
Line 19, "ul" should read -- μ l--;
Line 23, "ul." should read -- μ l.--;
Line 42, "ul" should read -- μ l--;
Line 44, "ul" (both occurrences) should read -- μ l--;
Line 50, "ul" should read -- μ l-- and
"EDNA," should read --EDTA--;
Line 56, "ul" should read -- μ l--;
Line 57, "ul" should read -- μ l--; and
Line 60, "ug/ml" should read -- μ g/ml--.

COLUMN 21

Line 10, "ul" should read -- μ l--;
Line 12, "Magnesium" should read --magnesium--;
Line 14, "ul." should read μ l--;
Line 16, "ul" should read -- μ l--;
Line 17, "ul" (both occurrences) should read -- μ l--;
Line 18, "uCi/ul," should read -- μ Ci/ μ l--;
Line 20, "ul" should read -- μ l--;
Line 28, "complimentary" should read --complementary--;
Line 29, "³²p" should read --³²P--;
Line 39, "difference" should read --differences--;
Line 56, "rmp," should read --rpm--;
Line 66, "(40°C." should read --(4°C.--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 22

Line 16, "m" should read --M--;
Line 22, "ug" should read -- μ g--;
Line 23, "ul" should read -- μ l--;
Line 25, "ug" should read -- μ g-- and
"ul" should read -- μ l--;
Line 27, "mm" should read --mM--; and
"uM" should read -- μ M--;
Line 28, "ug" should read -- μ g--;
Line 29, "uCi" should read μ Ci--;
Line 30, "uCi/mmmole)" should read -- μ Ci/mmmole--;
Line 35, "ul" should read -- μ l--;
Line 41, "mm" should read --mM--;
Line 44, "ug" should read -- μ g--;
Line 45, "ul" should read -- μ l--;
Line 49, "RNAsAe" should read --RNase--;
Line 51, "uM" (both occurrences) should read -- μ M--;
Line 52, "uCI" should read -- μ Ci--;
Line 58, "ul" should read -- μ l--; and
Line 66, "ul" should read -- μ l--.

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Page 8 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 23

Line 4, "ul" should read -- μ l--; *ad*
Line 18, "ul" should read -- μ l--; *ia*
Line 19, "ul" should read -- μ l-- and
"bacterial" should read --bacteria--; *ia*
Line 26, "ug/ml" should read -- μ g/ml--; *a*
Line 27, "mation" should read --mations--; *ce*
Line 37, "filter was carefully placing methods, in
which each original" should be deleted; *ad*
Line 53, "40°C." should read --4°C--; *a*
Line 59, "m" should read --M--; *a*
Line 62, "Sodium" should read --sodium--; and *a*
Line 63, "Citrate," should read --citrate,--; *a*

COLUMN 24

Line 12, "HTLV-1" should read --HTLV-II--; *agv*
Line 46, "KFBA" should read -- HFBA--;
Line 53, "ul" should -- μ l--; and *a*
Line 64, "ug" should read -- μ g--. *a*

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DATED : April 6, 1999

INVENTOR(S) : STEVEN C. CLARK, ET AL.

Page 9 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 25

Line 3, "Plasmid" should read ¶ Plasmid--;
Line 12, "MgSO₄" should read --MgSO₄--;
"5 ug/ml" should read --5 µg/ml--; and
"10 ug/ml" should read --10 µg/ml--;
Line 14, "ug/ml" should read --µg/ml--;
Line 17, "40°C." should read --4°C--;
Line 18, "mm" should read --mM--;
Line 26, "mm" should read --mM--;
Line 44, "ug/ml" should read --µg/ml--; and
Line 50, "subcultered" should read --subcultured--.

COLUMN 26

Line 10, "uM" should read --µM--;
Line 11, "uM.MTX." should read --µM MTX.--;
Line 14, "uM.MTX" (both occurrences) should read
--µM MTX--;
Line 15, "uM.MTX" should read --µM MTX.--;
Line 16, "uM.MTX." should read --µM MTX.--;
Line 25, "diagramatic" should read --diagrammatic--;
Line 32, "TAR-" should read --TAR--; and
Line 50, "4204-4208." should read --4204-4208).--.

COLUMN 27

Line 18, "Na₂HPO₄·7H₂O" should read --Na₂HPO₄·7H₂O--;
Line 28, "ul" should read --µl--; and
Line 32, "GM-CSP" should read --GM-CSF--.

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Page 10 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 28

Line 23, "i.a." should be deleted; *IR*

Line 25 through Column 32, line 11, delete all text
(e.g., "1. A method for preparing and isolating a
transformation vector containing CSF/cDNA, said method
comprising: ... 127 amino acid CSF coding nucleotide sequence
of plasmid p91023(B)-CSF deposited therein.") *a ✓*

COLUMN 32

Line 51, "CSF" should read --GM-CSF--. *a*

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ON THE TITLE PAGE AT [54] TITLE AND COLUMN 1,

"GRANULOCYTE-" should read --GRANULOCYTE--.

ON THE TITLE PAGE AT [73] ASSIGNEE

"Switzerland" should read --Basel, Switzerland--.

AT [56] REFERENCES CITED

OTHER PUBLICATIONS

"Gongh et al." should read --Gough et al.-- and
"Blenckley et al." should read --Bleackley et al.--.

COLUMN 1

Line 1, "GRANULOCYTE-" should read --GRANULOCYTE--.

COLUMN 2

Line 6, "active" should read --activity--;
Line 36, "ape" should read --and ape--;
Line 52, "Maniatis T." should read --(Maniatis, T.--;
and
Line 59, "sequences;" should read --sequence;--.

COLUMN 3

Line 22, "CSF" should read --CSF's--.

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COLUMN 4

Line 55, "tern" should read --term--.

COLUMN 6

Line 40, "polyadanylation" should read
--polyadenylation--; and

Line 52, "publically" should read --publicly--.

COLUMN 7

Line 10, "census" should read --sensus--;

Line 22, "sequencs" should read --sequence--;

Line 29, "concensus" should read --consensus--; and

Line 38, "inton" should read --intron--.

COLUMN 8

Line 20, "aactivity" should read --activity--.

COLUMN 10

Line 2, " 2×10^7 " should read -- 1×10^7 --;

Line 45, "ultogel," should read --ultrogel,--; and

Line 47, "form" should read --from--.

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Line 53, "Restrictions" should read --Restriction--;
Line 57, "buffar" should read --buffer--; and
Line 61, "Tris-botate," should read --Tris-borate,--.

COLUMN 12

Line 43, "3 ," should read --3 hours,--; and
Line 61, "CSP" should read --CSF--.

COLUMN 13

Line 2, "monacytes" should read --monocytes--;
Line 7, "2%" should read --2x--;
Line 31, "pSVOD" should read --pSVOd--;
Line 36, "pCSVL2" should read --pCSVL-2--;
Line 37, "FIG. 2." should read --FIGS. 2 and 3--; and
Line 63, "5' of" should read --5' or 3' of--.

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Line 17, "with," should read --with--;
Line 24, "pSR322-Ad" should read --pBR322-Ad--;
Line 28, "EcoR1)." should read --EcoR1).--;
Line 29, "E. coli HB102." should read E. coli HB101--;
Line 30, "resistances," should read --resistance,--;
Line 36, "fragment" should read --fragments,--;
Line 40, "fragments" should read --fragments,--;
Line 52, "p9123(B)" should read --p91023(B)--;
Line 55, "step 4." should read --Step 4.--; and
Line 59, "5 ng/al" should read --5 ng/ml--.

COLUMN 15

Line 13, "SW4centrifuge" should read
--SW41 centrifuge--;
Line 36, "dt-cellulose" should read --dT-cellulose--;
Line 52, "there" should read --then--; and
Line 63, "pH 9.4. 14 C mM KCl," should read
--pH 8.4, 140 mM KCl,--.

COLUMN 16

Line 7, "chloroform" should read --chloroform,--;
Line 40, "pCGAATTCCG)" should read --pCGGAATTCCG)--; and
Line 50, "1" should read --1%--.

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COLUMN 17

Line 2, "25 transformation" should read
--25 transformations--; and

Line 61, "heatinactivated" should read
--heat-inactivated--.

COLUMN 18

Line 2, "glutamine" should read --glutamine,--;

Line 24, "ug/ml" should read -- μ g/ml--;

Line 37, "ul" should read -- μ l--;

Line 50, "insect." should read --insert.--; and

Line 54, "3 sequencing" should read --sequencing--.

COLUMN 19

Line 1, "glutamine." should read --glutamine,--;

Line 2, "ug/ml" should read -- μ g/ml--;

Line 12, "SP" should read --SF--;

Line 13, "SP" should read --SF--;

Line 18, "sample" should read --samples--;

Line 28, "bias" should read --was--;

Line 33, "wag" should read --was--;

Line 37, "It" should read --(It--;

Line 44, "TEA." should read --TFA.--;

Line 45, "gradient" should read --gradient--; and
"acatonitrile" should read --acetonitrile--;

Line 47, "acatonitrile" should read --acetonitrile--;
and "20 ul" should read --20- μ l--;

Line 49, "electrophoresis" should read
--electrophoresis--; and

Line 56, "ug" should read -- μ g--.

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COLUMN 20

Line 8, "product" should read --produce--;
Line 10, "tetradecanoyl" should read --tetradecanoyl--;
Line 18, "ug" should read -- μ g--; and
"Of" should read --of--;
Line 19, "ul" should read -- μ l--;
Line 23, "ul." should read -- μ l.--;
Line 42, "ul" should read -- μ l--;
Line 44, "ul" (both occurrences) should read -- μ l--;
Line 50, "ul" should read -- μ l--; and
"EDNA," should read --EDTA--;
Line 56, "ul" should read -- μ l--;
Line 57, "ul" should read -- μ l--; and
Line 60, "ug/ml" should read -- μ g/ml--.

COLUMN 21

Line 10, "ul" should read -- μ l--;
Line 12, "Magnesium" should read --magnesium--;
Line 14, "ul." should read μ l--;
Line 16, "ul" should read -- μ l--;
Line 17, "ul" (both occurrences) should read -- μ l--;
Line 18, "uCi/ul," should read -- μ Ci/ μ l,--;
Line 20, "ul" should read -- μ l--;
Line 28, "complimentary" should read --complementary--;
Line 29, "³²p" should read --³²P--;
Line 39, "difference" should read --differences--;
Line 56, "rmp," should read --rpm,--;
Line 66, "(40°C.," should read --(4°C.,--.

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COLUMN 22

Line 16, "m" should read --M--;
Line 22, "ug" should read -- μ g-;
Line 23, "ul" should read -- μ l-;
Line 25, "ug" should read -- μ g-; and
"ul" should read -- μ l-;
Line 27, "mm" should read --mM-; and
"uM" should read -- μ M-;
Line 28, "ug" should read -- μ g-;
Line 29, "uCi" should read μ Ci-;
Line 30, "uCi/m mole)" should read -- μ Ci/mmole-;
Line 35, "ul" should read -- μ l-;
Line 41, "mm" should read --mM-;
Line 44, "ug" should read -- μ g-;
Line 45, "ul" should read -- μ l-;
Line 49, "RNAsAe" should read --RNAse-;
Line 51, "uM" (both occurrences) should read -- μ M-;
Line 52, "uCI" should read -- μ Ci-;
Line 58, "ul" should read -- μ l-; and
Line 66, "ul" should read -- μ l-.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,891,429

DATED : April 6, 1999

INVENTOR(S) : STEVEN C. CLARK, ET AL.

Page 8 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 23

Line 4, "ul" should read -- μ l--;
Line 18, "ul" should read -- μ l--;
Line 19, "ul" should read -- μ l--; and
"bacterial" should read --bacteria--;
Line 26, "ug/ml" should read -- μ g/ml--;
Line 27, "mation" should read --mations--;
Line 37, "filter was carefully placing methods, in
which each original" should be deleted;
Line 53, "40°C." should read --4°C--;
Line 59, "m" should read --M--;
Line 62, "Sodium" should read --sodium--; and
Line 63, "Citrate," should read --citrate,--.

COLUMN 24

Line 12, "HTLV-1" should read --HTLV-II--;
Line 46, "KFBA" should read -- HFBA--;
Line 53, "ul" should -- μ l--; and
Line 64, "ug" should read -- μ g--.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,891,429

DATED : April 6, 1999

INVENTOR(S) : STEVEN C. CLARK, ET AL.

Page 9 of 10

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 25

Line 3, "Plasmid" should read ¶ Plasmid--;
Line 12, "MgSO₄" should read --MgSO₄--;
"5 ug/ml" should read --5 µg/ml--; and
"10 ug/ml" should read --10 µg/ml--;
Line 14, "ug/ml" should read --µg/ml--;
Line 17, "40°C." should read --4°C--;
Line 18, "mm" should read --mM--;
Line 26, "mm" should read --mM--;
Line 44, "ug/ml" should read --µg/ml--; and
Line 50, "subcultered" should read --subcultured--.

COLUMN 26

Line 10, "uM" should read --µM--;
Line 11, "uM.MTX." should read --µM MTX.--;
Line 14, "uM.MTX" (both occurrences) should read
--µM MTX--;
Line 15, "uM.MTX" should read --µM MTX.--;
Line 16, "uM.MTX." should read --µM MTX.--;
Line 25, "diagramatic" should read --diagrammatic--;
Line 32, "TAR-" should read --TAR--; and
Line 50, "4204-4208." should read --4204-4208).--.

COLUMN 27

Line 18, "Na₂HPO₄·7H₂O" should read --Na₂HPO₄·7H₂O--;
Line 28, "ul" should read --µl--; and
Line 32, "GM-CSP" should read --GM-CSF--.